IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Process for preparing 1-octene by comprising:

- a) eatalytic reaction of reacting catalytically a butadiene-containing stream with methanol to give a stream comprising at least 1-methoxy-2,7-octadiene,
- b) eatalytic hydrogenation of hydrogenating catalytically the 1-methoxy-2,7-octadiene-containing stream to give a stream comprising at least 1-methoxyoctane, and
- c) eatalytic dissociation of dissociating catalytically at least part of the 1-methoxyoctane to give a dissociation product comprising at least water and 1-octene, wherein
- d) the dissociation product from c) is separated by distillation into a gaseous low-boiling fraction comprising at least 1-octene and water and a liquid high-boiling fraction comprising at least 1-octene and 1-methoxyoctane,
- e) the low-boiling fraction is completely or partially condensed and separated into an aqueous phase and a 1-octene-containing, nonpolar phase,
 - f) the nonpolar phase from e) is recirculated to step d) and
- g) the high-boiling fraction from d) is separated into a 1-octene-containing fraction and a 1-methoxyoctane-containing fraction.

Claim 2 (Original): The process as claimed in claim 1, wherein d1) the dissociation product from c) comprises dimethyl ether (DME) and is separated by distillation into a low-boiling fraction comprising at least DME and a high-boiling fraction which is at least partly passed to step d).

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Claim 3 (Original): The process as claimed in claim 2, wherein the high-boiling fraction from d1) comprises methanol and is washed with water to give a methanol-containing aqueous stream and a nonpolar stream which is passed to step d).

Claim 4 (Original): The process as claimed in claim 1, wherein d2) comprises methanol as dissociation product from c) and is washed with water to give a methanol-containing, aqueous stream and a nonpolar stream which is passed at least partly to step d).

Claim 5 (Original): The process as claimed in claim 4, wherein the nonpolar stream comprises at least DME and is separated by distillation into a low-boiling fraction comprising at least DME and a high-boiling fraction which is passed to step d).

Claim 6 (Currently Amended): The process as claimed in any of claims 1 to 5 claim 1, wherein the 1-octene-containing fraction from g) is separated in a step h) into a fraction comprising at least 1-octene and a fraction comprising at least C₈- and C₉-olefins.

Claim 7 (Currently Amended): The process as claimed in any of claims 1 to 6 claim 1, wherein the 1-methoxyoctane-containing fraction from g) is separated in a step i) into a low-boiling fraction comprising 1-methoxyoctane and a high-boiling fraction comprising at least dioctyl ether.

Claim 8 (Original): The process as claimed in claim 7, wherein the low-boiling fraction is recirculated to step c).

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Claim 9 (Currently Amended): The process as claimed in any of claims 1 to 8 claim 1, wherein k) the step a) comprises, after the catalytic reaction, a distillation step in which the C₄-hydrocarbons are separated off by distillation and the remaining stream which has a C₄-hydrocarbon content of less than 5% by weight is passed to step b).

Claim 10 (Currently Amended): The process as claimed in any of claims 1 to 9-claim 1, wherein 1) the stream from step b) is separated by distillation into a low-boiling fraction comprising at least methanol, 3-methoxyoctane and C₈-hydrocarbons and a low-boiling fraction comprising at least 1-methoxyoctane and the high-boiling fraction is passed to step c).

Claim 11 (Currently Amended): The process as claimed in claim 3-or-4, wherein the methanol and/or the water is/are separated off from the aqueous, methanol-containing stream in a step o).

Claim 12 (Original): The process as claimed in claim 11, wherein the aqueous phase from e) is likewise fed to step o).

Claim 13 (Currently Amended): The process as claimed in claim 11-or 12, wherein the low-boiling fraction from 1) is likewise fed to step 0).

Claim 14 (Currently Amended): The process as claimed in any of claims 11 to 13 claim 11, wherein an organic phase is separated off from the stream in step o) and the aqueous phase is separated by distillation into a low-boiling fraction comprising methanol and a high-boiling fraction comprising water.

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Claim 15 (Original): The process as claimed in claim 14, wherein the organic phase is separated off by extraction.

Claim 16 (Currently Amended): The process as claimed in any of claims 11 to 15 claim 11, wherein all or part of the methanol is recirculated to step a) (telomerization).